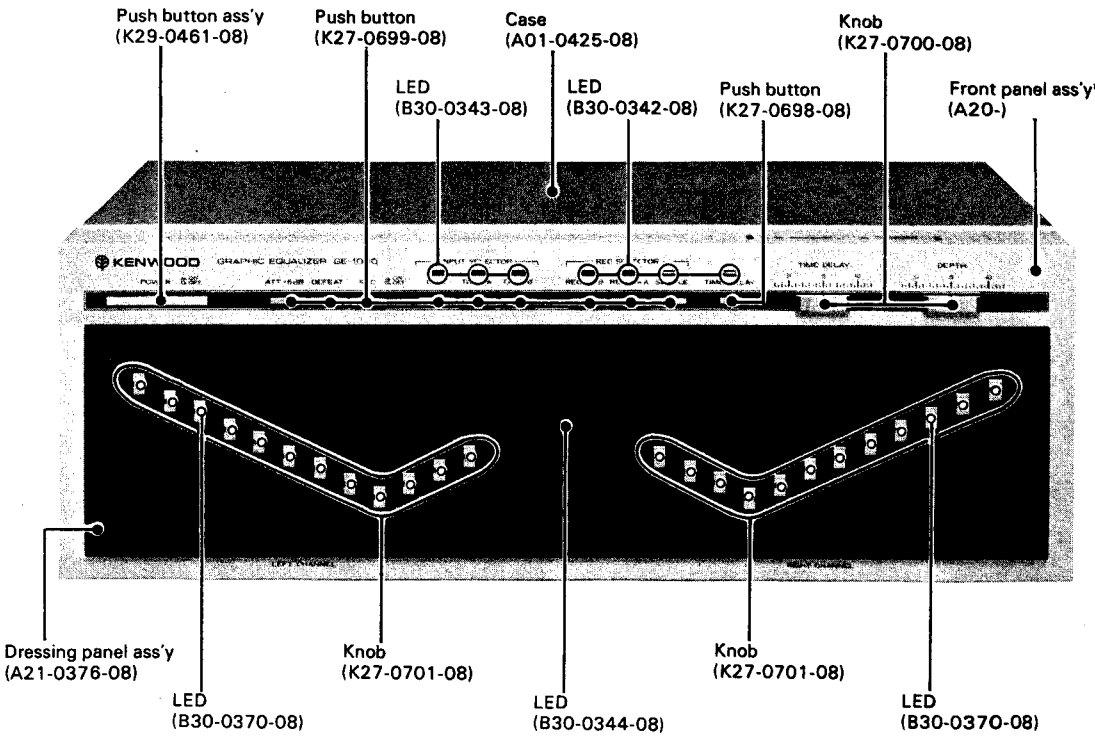
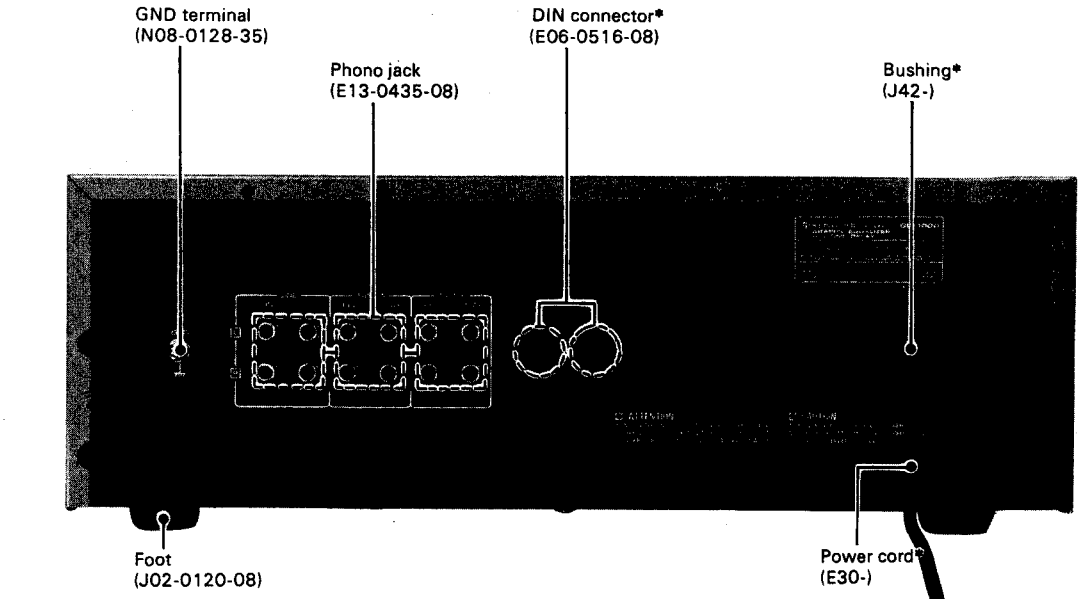
SERVICE MANUAL

KENWOOD

GE-1000

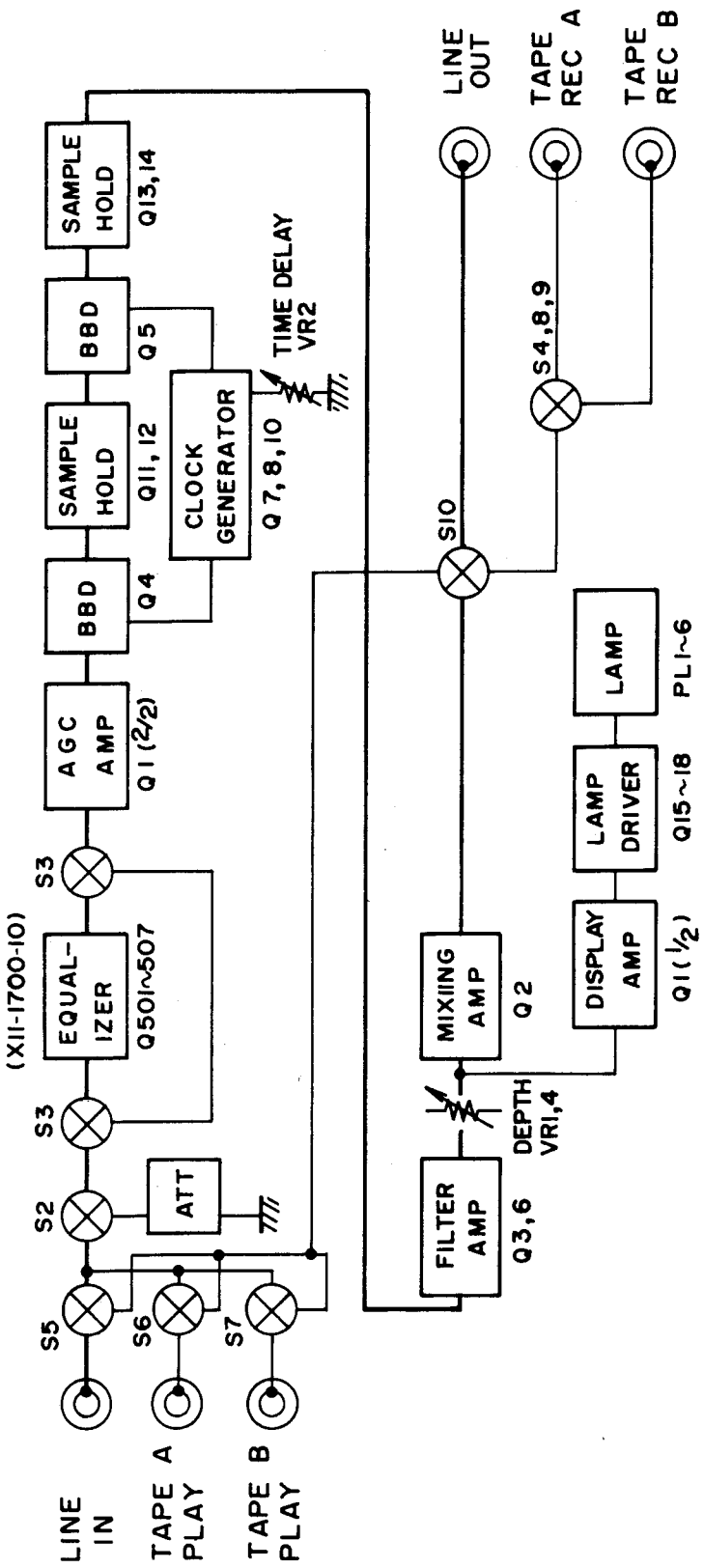
GRAPHIC EQUALIZER





* Refer to Parts List on page 6.

BLOCK DIAGRAM



ADJUSTMENT/REGLAGES/ABGLEICH

ADJUSTMENT

1. Set graphic equalizer knobs to 0 dB (①).
2. Set DEPTH and TIME DELAY knobs to max(②).
3. Short the Test Point (③).
4. Input 400 Hz (150 mV) to left channel of INPUT phono jack(④).
5. Adjust VR3 so that 150 mV is obtained at right channel of OUTPUT phono jack(⑤).

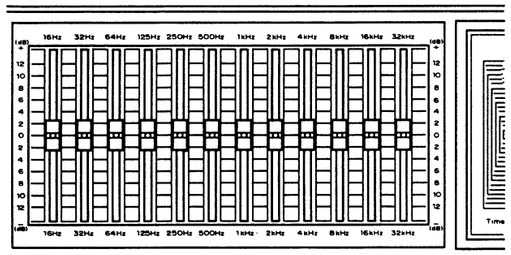
REGLAGE

1. Régler les boutons de l'égalisateur graphique sur 0 dB(①).
2. Régler les bouton DEPTH et TIME DELAY sur maxi. (②).
3. Court-circuiter le point d'essai (③).
4. Entrée 400 Hz (150 mV) au canal gauche de la prise phono INPUT(④).
5. Régler VR3 en sorte que 150 mV soient obtenus au canal droit de la prise phons OUTPUT(⑤).

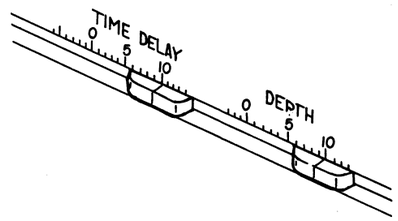
ABGLEICH

1. Die knöpfe des graphisehen Ausgleicher auf 0 dB einstellen(①).
2. DEPTH und TIME DELAY knöpfe auf max) einstellen. (②).
3. Den Test punkt kurzeschließen (③).
4. Eingang 400 Hz (150 mV) auf linken Kanal von Phono-Buchse INPUT(④).
5. VR3 so einstellen, daß am rechten kanal von Phono-Brchse OUTPUT 150 mV erhalten wird(⑤).

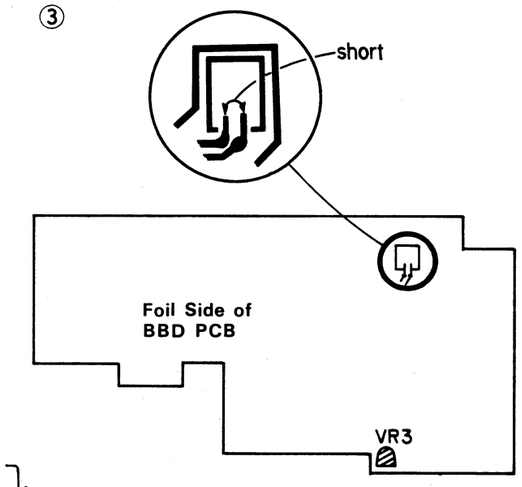
①

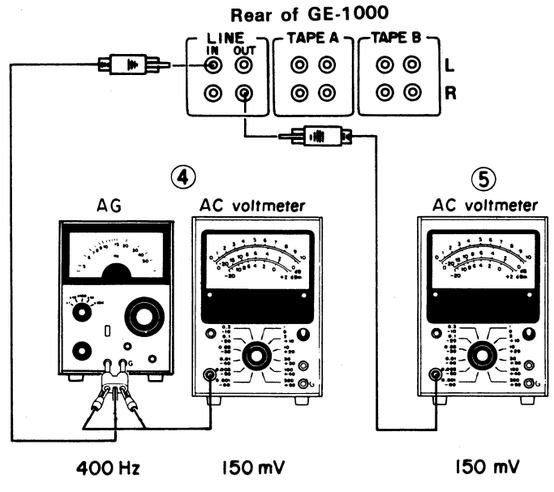


②



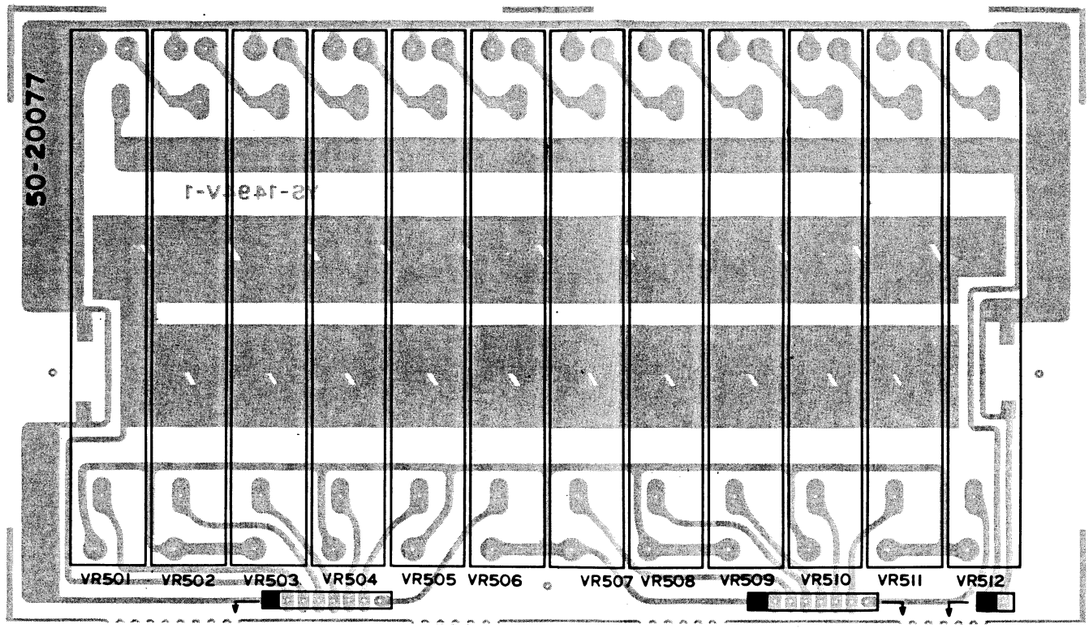
③

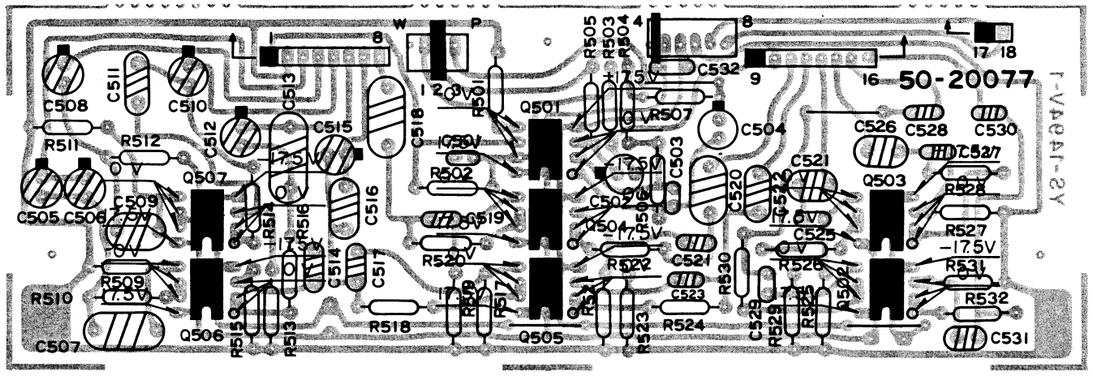




PC BOARD

EQUALIZER (X11-1700-10)
Component Side View



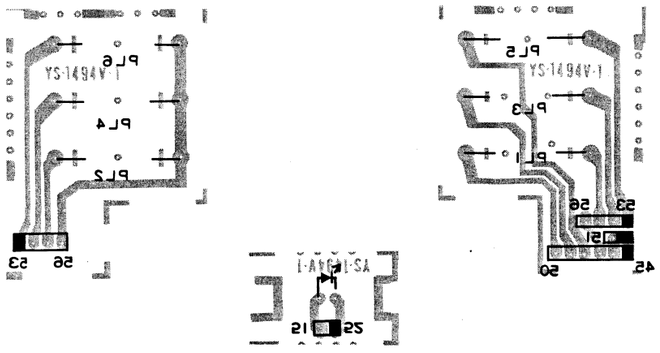


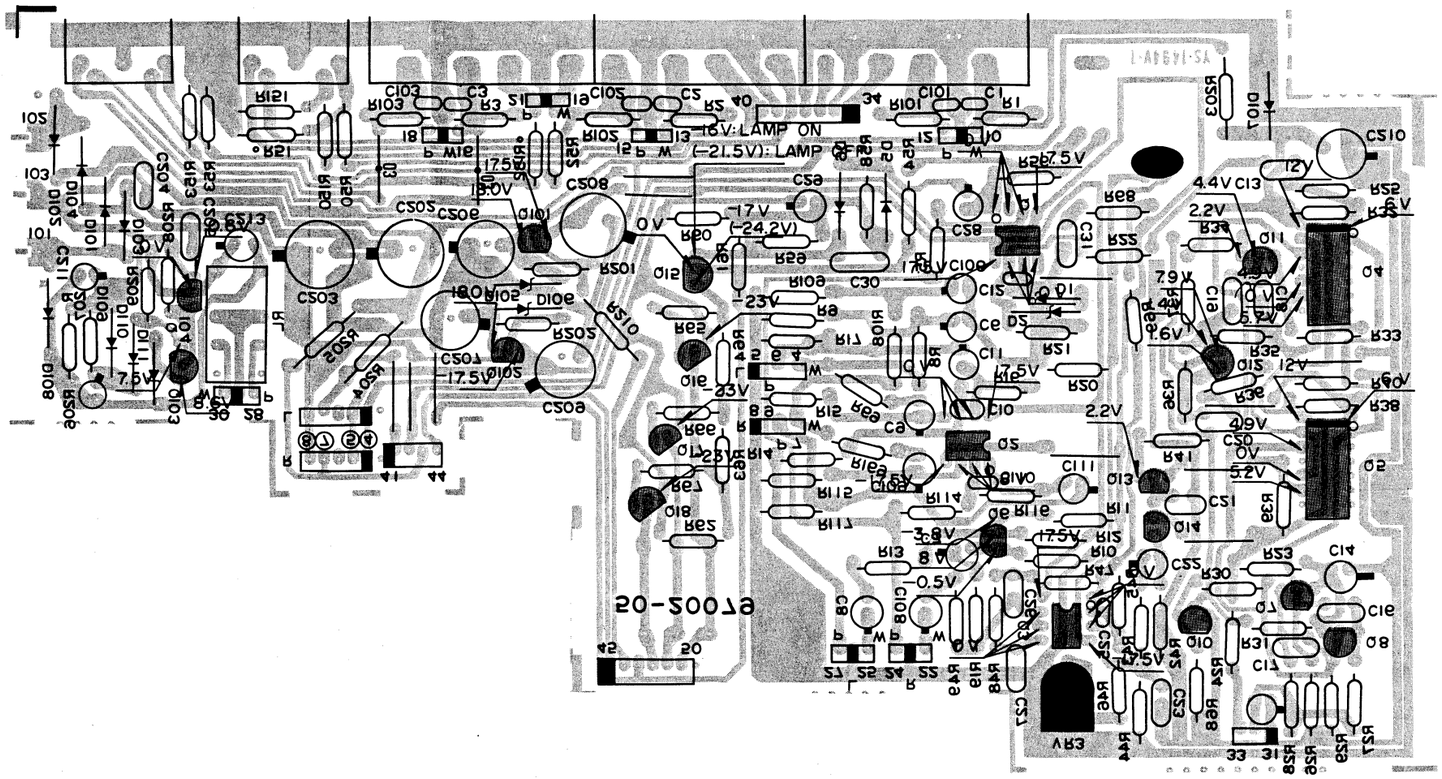
Refer to the schematic diagram for the values of resistors and capacitors.

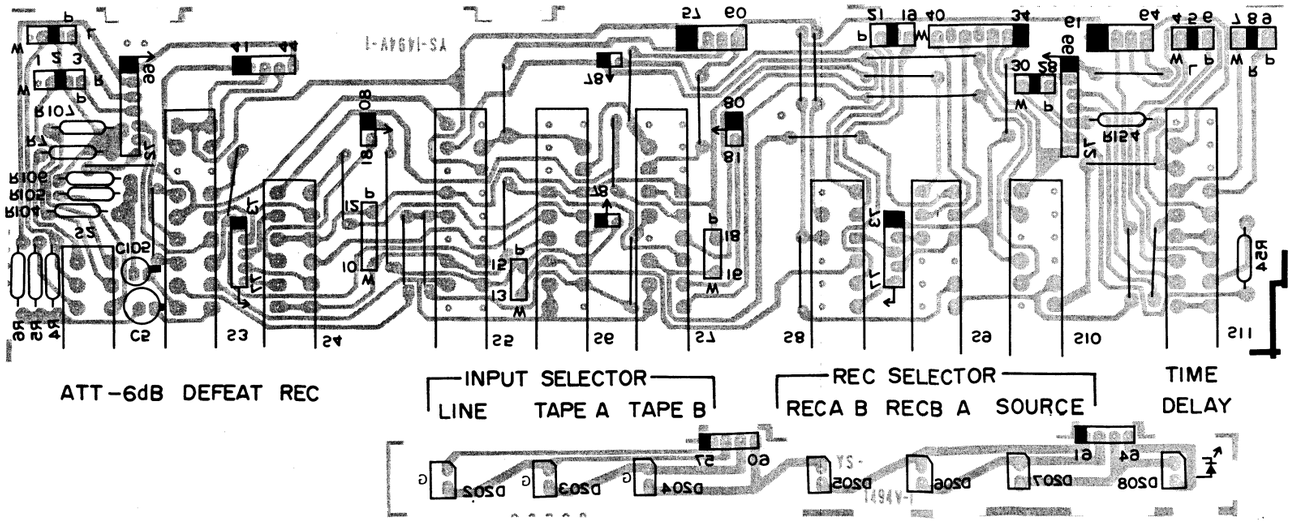
GE-1000 GE-1000

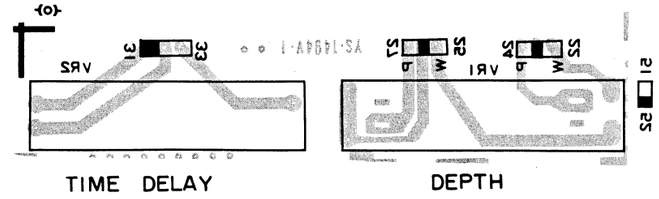
PC BOARD

BBD(X14-1300-10)
Foil Side View







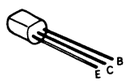


Refer to the schematic diagram for the values of resistors and capacitors.

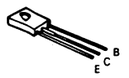
KENWOOD®

GRAPHIC EQUALIZER

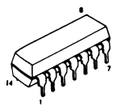
2SA777
2SA950
2SA992
2SA1015
2SC536
2SC1213
2SC1815
2SC2003
2SC2021
2SC2655



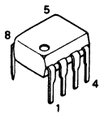
2SC1904



CX766



NJM4558D
NJM4559D



SEMICONDUCTOR SUBSTITUTIONS LIST

Name	Substitutions
NJM4558D NJM4559D	NJM4558
2SA950	2SA777
2SA1015 (Y)	2SA992
2SC1815 (Y)	2SC536 (F), 2SC1213
2SC2120	2SC2003
2SC2655	2SC1904

Q1~3 :NJM4558DX
Q4,5 :CX766
Q6,10~15,104 :2SC1815(GR)
Q7,8,103 :2SA1015(GR)
Q16~18 :2SC2655(Y)
Q101 :2SC2120(Y)
Q102 :2SA950(Y)

D1,2 :HZ3A1
D5,6,109,110 :1S1588
D101~104 :1N4002
D105,106 :HZ18-2
D107,111 :HZ12A-2
D108 :1N4002
D109,110 :1S1588
D201 :PR3531K

D202~204 :SLP254B
D205~208 :SLP154B

BBD (X14-1300-10)

LINE IN
TAPE A PLAY
TAPE A REC
TAPE B PLAY
TAPE B REC
LINE OUT

AGC AMP
SAMPLE HOLD
CLOCK GENERATOR
FILTER AMP
MIXING (L)
DEPTH ADJ.
TIME DELAY
DEPTH
DRIVER
DISPLAY AMP
MUTE RELAY
RELAY DRIVER
VOLTAGE REGULATOR
POWER LED
POWER SI
(K) TYPE

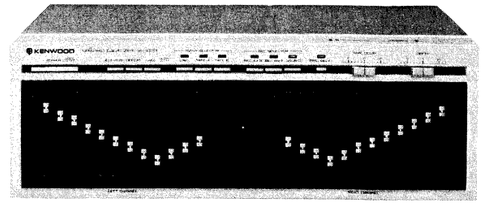
EQUALIZER (X11-1700-10)

16 32 64 125 250 500 1K 2K 4K 8K 16K 32K

S2 ATT
S3 DEFEAT
S4 REC
S5 LINE
S6 TAPE A
S7 TAPE B
S8 A→B

GRAPHIC EQUALIZER

GE-1000



SPECIFICATIONS

Equalizer Section

Equalizer Characteristics
- Variable Range ..... ± 12 dB
- Individual Channel Adjust .... 16 Hz, 32 Hz, 64 Hz, 125 Hz, 250 Hz, 500 Hz, 1 kHz, 2 kHz, 4 kHz, 8 kHz, 16 kHz, 32 kHz

Total Harmonic Distortion ..... 20 Hz to 20 kHz, all controls defeated

1 V Output	0.005%
1 V Output at 1 kHz	0.003%
3 V Output at 1 kHz	0.003%

Insertion Loss ..... 0 dB (all controls defeated)
Maximum Output Voltage ..... 10 V at 1 kHz, 0.01% THD
Frequency Response ..... 10 Hz to 60 kHz, +0 dB, −1 dB
Signal to Noise Ratio ..... 103 dB at 1 V
Attenuator (ATT) ..... − 6 dB
Input Impedance ..... 50 kohms
Output Impedance ..... 600 ohms

Time Delay System Section

Delay Time ..... Variable from 30 msec. to 100 msec.
Echo Effect ..... Variable from 0 sec. to 2.8 sec.

General

Power Consumption ..... 0.15 A(U.S.A.)/17 W(Others)
Dimensions ..... W 440 mm (17-5/16")
H 150 mm (5-29/32")
D 350 mm (13-25/32")
Weight (Net) ..... 7.5 kg
(Gross) ..... 8.5 kg

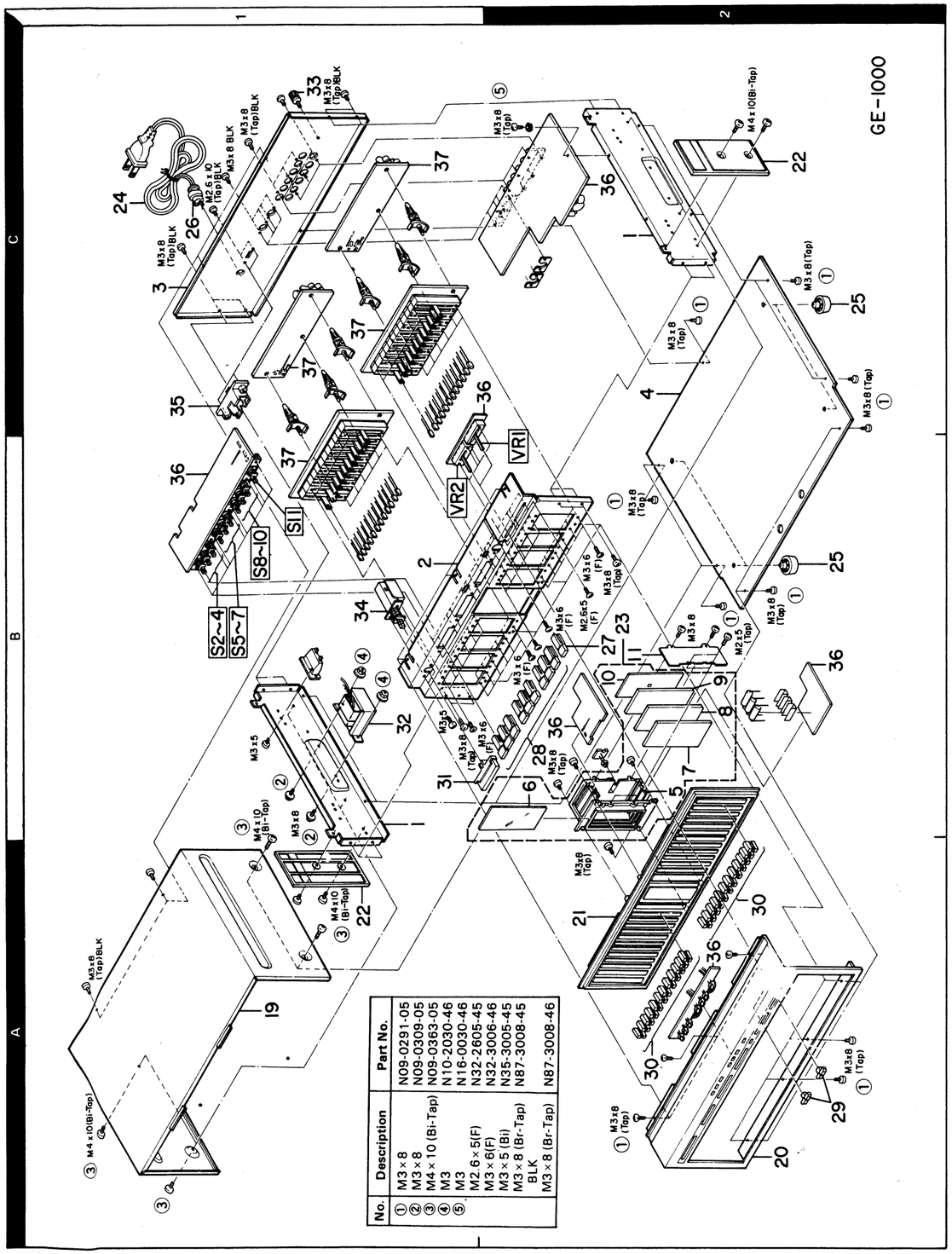
Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

DC voltages are measured by a VOM of 20 kΩ/V input impedance.

EXPLODED VIEW



No.	Description	Part No.
①	M3 × 8	N09-0291-05
②	M3 × 8	N09-0309-05
③	M4 × 10 (Bi-Tap)	N09-0363-05
④	M3	N10-2030-46
⑤	M3	N16-0030-46
	M2.6 × 5(F)	N32-2605-45
	M3 × 6(F)	N32-3006-46
	M3 × 5 (Bi)	N35-3005-45
	M3 × 8 (Br-Tap) BLK	N87-3008-45
	M3×8 (Br-Tap)	N87-3008-46

Parts without Parts No. are not supplied.
Les articles non Parts No. sont ne pas fournis.
Teile ohne Parts No. werden nicht geliefert.

PARTS LIST

* New Parts

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
GE-1000 UNIT			
1 1B,2C	NO STOCK	SUB CHASSIS	
2 2B	NO STOCK	FRAME	
3 1C	NO STOCK	REAR PANEL	
4 2C	NO STOCK	BOTTOM PLATE	
5 2B	NO STOCK	FILTER BOX	
6 2B	NO STOCK	FILTER (1)	
7 2B	NO STOCK	FILTER (2)	
8 2B	NO STOCK	FILTER (3)	
9 2B	NO STOCK	FILTER (4)	
10 2B	NO STOCK	FILTER (5)	
11 2B	NO STOCK	COVER PLATE	
19 2A	A01-0425-08	CASE	*
20 2A	A20-3117-08	FRONT PANEL ASSY	*K
20 2A	A20-3117-08	FRONT PANEL ASSY	UM
20 2A	A20-3117-08	FRONT PANEL ASSY	UE
20 2A	A20-3117-08	FRONT PANEL ASSY	HX
20 2A	A20-3117-08	FRONT PANEL ASSY	E
20 2A	A20-3118-08	FRONT PANEL ASSY	*T
21 2A	A21-0376-08	DRESSING PANEL ASSY	*
-	B46-0060-00	WARRANTY CARD	T
-	B46-0061-30	WARRANTY CARD	K
-	B46-0062-30	WARRANTY CARD	UH
-	B46-0063-13	WARRANTY CARD	UH
-	B46-0063-13	WARRANTY CARD	UE
-	B46-0064-20	WARRANTY CARD	X
-	B46-0078-03	WARRANTY CARD	E
-	B50-3391-00	INSTRUCTION MANUAL	*K
-	B50-3391-00	INSTRUCTION MANUAL	UM
-	B50-3391-00	INSTRUCTION MANUAL	UE
-	B50-3391-00	INSTRUCTION MANUAL	HX
-	B50-3392-00	INSTRUCTION MANUAL	*X
-	B50-3392-00	INSTRUCTION MANUAL	E
-	B50-3395-00	INSTRUCTION MANUAL	*T
-	B50-3396-00	INSTRUCTION MANUAL	*M
-	B59-0018-00	SERVICE STATIONS' LIST	
22 1A,2C	B01-0196-08	SIDE COVER	*
23 2B	B08-9038-08	INDICATOR ASSY	*
24 1C	E30-0181-05	POWER CORD	KU
24 1C	E30-0181-05	POWER CORD	MH
24 1C	E30-0181-05	POWER CORD	UE
24 1C	E30-0459-05	POWER CORD	E
24 1C	E30-0587-15	POWER CORD	T
24 1C	E30-0649-05	POWER CORD	X
-	H01-3349-08	CARTON BOX	*K
-	H01-3349-08	CARTON BOX	UM
-	H01-3349-08	CARTON BOX	HX
-	H01-3349-08	CARTON BOX	UE
-	H01-3349-08	CARTON BOX	E
-	H01-3350-08	CARTON BOX	*T
-	H10-1597-08	POLYSTYRENE FIXTURE	*
-	H25-0078-04	BAG (235X315)	
25 2B,2C	J02-0120-08	FOOT	*
26 1C	J42-0083-05	BUSHING	KU
26 1C	J42-0083-05	BUSHING	MH
26 1C	J42-0083-05	BUSHING	UE
26 1C	J42-0096-08	BUSHING	*T
26 1C	J42-0096-08	BUSHING	E
26 1C	J42-0097-08	BUSHING	*X

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
27 2B	K27-0698-08	PUSH BUTTON(TIME DELAY)	*
28 2B	K27-0699-08	PUSH BUTTON(OTHERS)	*
29 2A	K27-0700-08	KNOB(TIME DELAY,DEPTH)	*
30 2A	K27-0701-08	KNOB(GRAPHIC EQUALIZER)	*
31 2B	K29-0461-08	PUSH BUTTON ASSY(POWER)	*
32 1B	L01-2541-08	POWER TRANSFORMER	*K
32 1B	L01-2544-08	POWER TRANSFORMER	*U
32 1B	L01-2544-08	POWER TRANSFORMER	MH
32 1B	L01-2544-08	POWER TRANSFORMER	UE
32 1B	L01-2544-08	POWER TRANSFORMER	XT
32 1B	L01-2544-08	POWER TRANSFORMER	E
33 1C	N08-0128-35	GND TERMINAL	
-	R90-0185-08	SPARK KILLER	*
34 1B	S40-2141-08	PUSH SWITCH (POWER)	*U
34 1B	S40-2141-08	PUSH SWITCH (POWER)	MH
34 1B	S40-2141-08	PUSH SWITCH (POWER)	UE
34 1B	S40-2141-08	PUSH SWITCH (POWER)	XT
34 1B	S40-2141-08	PUSH SWITCH (POWER)	E
34 1B	S40-2143-08	PUSH SWITCH (POWER)	*K
35 1C	S31-2070-08	SLIDE SWITCH (VOLT SEL)	*U
35 1C	S31-2070-08	SLIDE SWITCH (VOLT SEL)	MH
35 1C	S31-2070-08	SLIDE SWITCH (VOLT SEL)	UE
35 1C	S31-2070-08	SLIDE SWITCH (VOLT SEL)	XE
36 1B,2C	X14-1300-10	BBD PCB ASSY	*K
36 1B,2C	X14-1300-11	BBD PCB ASSY	*U
36 1B,2C	X14-1300-11	BBD PCB ASSY	MH
36 1B,2C	X14-1300-11	BBD PCB ASSY	UE
36 1B,2C	X14-1300-11	BBD PCB ASSY	XT
36 1B,2C	X14-1300-13	BBD PCB ASSY	*E
37 1C	X11-1700-10	EQUALIZER PCB ASSY	*
BBD (X14-1300-1*)			
D201	B30-0344-08	LED(RED) PR3531K	
D202-204	B30-0343-08	LED(GREEN) SLP254B	
D205-208	B30-0342-08	LED(RED) SLP154B	
PL1 -6	B30-0345-08	LAMP 12V 0.055A	*
C1 -3	C55-1710-38	CERAMIC 0.01UF Z	
C6	C24-1747-41	ELECTRO 0.47UF 50WV	
C7 -9	C24-1710-51	ELECTRO 1UF 50WV	
C10	C71-1710-16	CERAMIC 100PF K	
C11	C24-1447-57	ELECTRO 4.7UF 25WV	
C12	C52-1747-16	CERAMIC 470PF K	
C13	C45-1722-36	MYLAR 0.022UF K	
C14	C24-1210-71	ELECTRO 100UF 16WV	
C16 ,17	C47-1722-15	POLYSTY 220PF J	
C18	C45-1747-26	MYLAR 0.0047UF K	
C19	C45-1747-36	MYLAR 0.047UF K	
C20	C45-1733-36	MYLAR 0.033UF K	
C21	C45-1747-26	MYLAR 0.0047UF K	
C22	C24-1747-41	ELECTRO 0.47UF 50WV	
C23	C45-1722-36	MYLAR 0.022UF K	
C25	C45-1722-26	MYLAR 0.0022UF K	
C26	C45-1710-36	MYLAR 0.01UF K	
C27	C45-1710-26	MYLAR 0.001UF K	
C29	C24-1210-69	ELECTRO 10UF 16WV	
C30	C45-1710-46	MYLAR 0.1UF K	
C101-103	C55-1710-38	CERAMIC 0.01UF Z	
C108,109	C24-1710-51	ELECTRO 1UF 50WV	
C110	C71-1710-16	CERAMIC 100PF K	
C111	C24-1447-57	ELECTRO 4.7UF 25WV	
C202,203	C24-6510-81	ELECTRO 1000UF 35WV	

K: USA P: CANADA T: ENGLAND
E: Scandinavia & Europe S: South Africa
X: Australia M: Other Areas H: Audio Club
U: PX (Far East, Hawaii) UE: AAEES (Europe)

Codes for X14-1300-1*
E: X14-1300-13

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
C204,20			
C206,20			
C208,20			
C212			
C212			
-			
-			
R203			
R204,20			
R206			
R210			
VR1			
VR2			
VR3			
RL			
S2 -4			
S5 -7			
S8 -10			
S11			
D1 ,2			
D5 ,6			
D101-10			
D105,10			
D107			
D108			
D109,11			
D111			
Q1 -3			
Q4 ,5			
Q6			
Q7 ,8			
Q10 -15			
Q16 -18			
Q101			
Q102			
LED1-12			
C501			
C504-50			
C507			
C508			
C509			
C510			
C511			
C512			
C514			
C515			
C516			
C517			
C518			
C519			
C520			
C521			
C522			
C523			
C524			
C525			
C526			
C527			
C528			

K: USA
E: Scandi
X: Austra
U: PX (Fa

GE-1000 GE-1000

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PARTS LIST

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3 1C	NO STOCK	REAR PANEL	
4 2C	NO STOCK	BOTTOM PLATE	
5 2B	NO STOCK	FILTER BOX	
6 2B	NO STOCK	FILTER (1)	
7 2B	NO STOCK	FILTER (2)	
8 2B	NO STOCK	FILTER (3)	
9 2B	NO STOCK	FILTER (4)	
10 2B	NO STOCK	FILTER (5)	
11 2B	NO STOCK	COVER PLATE	
19 2A	A01-0425-08	CASE	*
20 2A	A20-3117-08	FRONT PANEL ASSY	*K
20 2A	A20-3117-08	FRONT PANEL ASSY	UM
20 2A	A20-3117-08	FRONT PANEL ASSY	UE
20 2A	A20-3117-08	FRONT PANEL ASSY	HX
20 2A	A20-3117-08	FRONT PANEL ASSY	E
20 2A	A20-3118-08	FRONT PANEL ASSY	*T
21 2A	A21-0376-08	DRESSING PANEL ASSY	*
-	B46-0060-00	WARRANTY CARD	T
-	B46-0061-30	WARRANTY CARD	K
-	B46-0062-30	WARRANTY CARD	UH
-	B46-0063-13	WARRANTY CARD	UH
-	B46-0063-13	WARRANTY CARD	UE
-	B46-0064-20	WARRANTY CARD	X
-	B46-0078-03	WARRANTY CARD	E
-	B50-3391-00	INSTRUCTION MANUAL	*K
-	B50-3391-00	INSTRUCTION MANUAL	UM
-	B50-3391-00	INSTRUCTION MANUAL	UE
-	B50-3391-00	INSTRUCTION MANUAL	HX
-	B50-3392-00	INSTRUCTION MANUAL	*X
-	B50-3392-00	INSTRUCTION MANUAL	E
-	B50-3395-00	INSTRUCTION MANUAL	*T
-	B50-3396-00	INSTRUCTION MANUAL	*M
-	B59-0018-00	SERVICE STATIONS' LIST	
22 1A,2C	B01-0196-08	SIDE COVER	*
23 2B	B08-9038-08	INDICATOR ASSY	*
24 1C	E30-0181-05	POWER CORD	KU
24 1C	E30-0181-05	POWER CORD	MH
24 1C	E30-0181-05	POWER CORD	UE
24 1C	E30-0459-05	POWER CORD	E
24 1C	E30-0587-15	POWER CORD	T
24 1C	E30-0649-05	POWER CORD	X
-	H01-3349-08	CARTON BOX	*K
-	H01-3349-08	CARTON BOX	UM
-	H01-3349-08	CARTON BOX	HX
-	H01-3349-08	CARTON BOX	UE
-	H01-3349-08	CARTON BOX	E
-	H01-3350-08	CARTON BOX	*T
-	H10-1597-08	POLYSTYRENE FIXTURE	*
-	H25-0078-04	BAG (235X315)	
25 2B,2C	J02-0120-08	FOOT	*
26 1C	J42-0083-05	BUSHING	KU
26 1C	J42-0083-05	BUSHING	MH
26 1C	J42-0083-05	BUSHING	UE
26 1C	J42-0096-08	BUSHING	*T
26 1C	J42-0096-08	BUSHING	E
26 1C	J42-0097-08	BUSHING	*X

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Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
27 2B	K27-0698-08	PUSH BUTTON(TIME DELAY)	*
28 2B	K27-0699-08	PUSH BUTTON(OTHERS)	*
29 2A	K27-0700-08	KNOB(TIME DELAY,DEPTH)	*
30 2A	K27-0701-08	KNOB(GRAPHIC EQUALIZER)	*
31 2B	K29-0461-08	PUSH BUTTON ASSY(POWER)	*
32 1B	L01-2541-08	POWER TRANSFORMER	*K
32 1B	L01-2544-08	POWER TRANSFORMER	*U
32 1B	L01-2544-08	POWER TRANSFORMER	MH
32 1B	L01-2544-08	POWER TRANSFORMER	UE
32 1B	L01-2544-08	POWER TRANSFORMER	XT
32 1B	L01-2544-08	POWER TRANSFORMER	E
33 1C	N08-0128-35	GND TERMINAL	
-	R90-0185-08	SPARK KILLER	*
34 1B	S40-2141-08	PUSH SWITCH (POWER)	*U
34 1B	S40-2141-08	PUSH SWITCH (POWER)	MH
34 1B	S40-2141-08	PUSH SWITCH (POWER)	UE
34 1B	S40-2141-08	PUSH SWITCH (POWER)	XT
34 1B	S40-2141-08	PUSH SWITCH (POWER)	E
34 1B	S40-2143-08	PUSH SWITCH (POWER)	*K
35 1C	S31-2070-08	SLIDE SWITCH (VOLT SEL)	*U
35 1C	S31-2070-08	SLIDE SWITCH (VOLT SEL)	MH
35 1C	S31-2070-08	SLIDE SWITCH (VOLT SEL)	UE
35 1C	S31-2070-08	SLIDE SWITCH (VOLT SEL)	XE
36 1B,2C	X14-1300-10	BBD PCB ASSY	*K
36 1B,2C	X14-1300-11	BBD PCB ASSY	*U
36 1B,2C	X14-1300-11	BBD PCB ASSY	MH
36 1B,2C	X14-1300-11	BBD PCB ASSY	UE
36 1B,2C	X14-1300-11	BBD PCB ASSY	XT
36 1B,2C	X14-1300-13	BBD PCB ASSY	*E
37 1C	X11-1700-10	EQUALIZER PCB ASSY	*
BBD (X14-1300-1*)			
D201	B30-0344-08	LED(RED) PR3531K	
D202-204	B30-0343-08	LED(GREEN) SLP254B	
D205-208	B30-0342-08	LED(RED) SLP154B	
PL1 -6	B30-0345-08	LAMP 12V 0.055A	*
C1 -3	C55-1710-38	CERAMIC 0.01UF Z	
C6	C24-1747-41	ELECTRO 0.47UF 50WV	
C7 -9	C24-1710-51	ELECTRO 1UF 50WV	
C10	C71-1710-16	CERAMIC 100PF K	
C11	C24-1447-57	ELECTRO 4.7UF 25WV	
C12	C52-1747-16	CERAMIC 470PF K	
C13	C45-1722-36	MYLAR 0.022UF K	
C14	C24-1210-71	ELECTRO 100UF 16WV	
C16 ,17	C47-1722-15	POLYSTY 220PF J	
C18	C45-1747-26	MYLAR 0.0047UF K	
C19	C45-1747-36	MYLAR 0.047UF K	
C20	C45-1733-36	MYLAR 0.033UF K	
C21	C45-1747-26	MYLAR 0.0047UF K	
C22	C24-1747-41	ELECTRO 0.47UF 50WV	
C23	C45-1722-36	MYLAR 0.022UF K	
C25	C45-1722-26	MYLAR 0.0022UF K	
C26	C45-1710-36	MYLAR 0.01UF K	
C27	C45-1710-26	MYLAR 0.001UF K	
C29	C24-1210-69	ELECTRO 10UF 16WV	
C30	C45-1710-46	MYLAR 0.1UF K	
C101-103	C55-1710-38	CERAMIC 0.01UF Z	
C108,109	C24-1710-51	ELECTRO 1UF 50WV	
C110	C71-1710-16	CERAMIC 100PF K	
C111	C24-1447-57	ELECTRO 4.7UF 25WV	
C202,203	C24-6510-81	ELECTRO 1000UF 35WV	

Codes for X14-1300-1*
E: X14-1300-13

PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
C204,205	C55-1747-38	CERAMIC 0.047UF Z	
C206,207	C24-1422-71	ELECTRO 220UF 25WV	
C208,209	C24-1447-79	ELECTRO 470UF 25WV	
C212	C24-1210-69	ELECTRO 10UF 16WV	
C212	C24-1447-57	ELECTRO 4.7UF 25WV	
-	E06-0516-08	DIN CONNECTOR	*E
-	E13-0435-08	PHONO JACK	
R203	R47-5410-25	FL-PROOF RS1K J 3A	
R204,205	R47-5515-25	FL-PROOF RS1,5K J 3D	
R206	R47-5412-25	FL-PROOF RS1,2K J 3A	
R210	R47-5522-25	FL-PROOF RS2,2K J 3D	
VR1	R13-3010-08	SLIDE POT.(20KBX2)DEPTH	
VR2	R13-2001-08	SLIDE POT.(5KB) T.DELAY	
VR3	R12-2023-08	TRIMMING POT. 5KB	
RL	S51-2054-08	RELAY (24V)	
S2 -4	S42-3052-08	PUSH SWITCH (3-KEY)	
S5 -7	S42-3050-08	PUSH SWITCH (3-KEY)	
S8 -10	S42-3051-08	PUSH SWITCH (3-KEY)	
S11	S40-6015-08	PUSH SWITCH (1-KEY)	
D1 ,2	V11-2104-10	HZ3A-1	
D5 ,6	V11-3101-60	1S1588	
D101-104	V11-0419-05	1N4002	
D105,106	V11-4100-10	HZ18-2	
D107	V11-2102-30	HZ12A-2	
D108	V11-0419-05	1N4002	
D109,110	V11-3101-60	1S1588	
D111	V11-2102-30	HZ12A-2	
Q1 -3	V30-0248-10	NJM4558D-X	
Q4 ,5	V30-0501-10	CX-766	
Q6	V03-1815-16	2SC1815(GR)	
Q7 ,8	V01-1015-20	2SA1015(GR)	
Q10 -15	V03-1815-16	2SC1815(GR)	
Q16 -18	V03-2655-10	2SC2655(Y)	
Q101	V03-2021-10	2SC2021(Y)	
Q102	V01-0950-00	2SA950(Y)	
EQUALIZER (X11-1700-10)			
LED1-12	B30-0370-08	LED (SLIDE POT.)	
C501	C52-1710-15	CERAMIC 100PF J	
C504-506	C24-1447-51	ELECTRO 4.7UF 25WV	
C507	C45-1722-45	MYLAR 0.22UF J	
C508	C24-1447-51	ELECTRO 4.7UF 25WV	
C509	C45-1712-45	MYLAR 0.12UF J	
C510	C24-1722-59	ELECTRO 2.2UF 50WV	
C511	C45-1768-35	MYLAR 0.068UF J	
C512	C24-1710-59	ELECTRO 1UF 50WV	
C514	C45-1733-35	MYLAR 0.033UF J	
C515	C24-1747-49	ELECTRO 0.47UF 50WV	
C516	C45-1782-35	MYLAR 0.082UF J	
C517	C45-1718-35	MYLAR 0.018UF J	
C518	C45-1727-45	MYLAR 0.27UF J	
C519	C45-1712-35	MYLAR 0.012UF J	
C520	C45-1715-45	MYLAR 0.15UF J	
C521	C45-1768-25	MYLAR 0.0068UF J	
C522	C45-1768-35	MYLAR 0.068UF J	
C523	C45-1747-25	MYLAR 0.0047UF J	
C524	C45-1739-35	MYLAR 0.039UF J	
C525	C45-1722-25	MYLAR 0.0022UF J	
C526	C45-1718-35	MYLAR 0.018UF J	
C527	C45-1722-25	MYLAR 0.0022UF J	
C528	C45-1710-35	MYLAR 0.01UF J	

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C529	C45-1710-25	MYLAR 0.001UF J	
C530	C45-1747-25	MYLAR 0.0047UF J	
C531	C45-1768-15	MYLAR 680PF J	
C532	C52-1710-36	CERAMIC 0.01UF K	
VR1 -12	R13-5028-08	SLIDE POT.(WITH LED)	
Q501,502	V30-0271-40	NJM4559D-D	
Q503-507	V30-0248-10	NJM4558D-X	

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